

No. J-11015/364/2009.IA-II(M)
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT AND FORESTS
IA-II (Coal-Mining) Division

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi- 110 003

Dated: 21st May, 2014

To,

Shri Pawan Agarwal
Director,
M/s Hind Energy & Coal Beneficiation (India) Pvt. Ltd.
Rama Trade Centre, 1st Floor, AXIS Bank Complex,
Bilaspur- 425 700
Chhattisgarh.

Subject: Expansion of 2.4 MTPA dry type of coal washery to 3.6 MTPA Coal Washery of M/s Hind Energy & Coal Beneficiation (India) Pvt. Ltd. Dist. Bilaspur, Chhattisgarh — Environment Clearance reg.

Sir:

This is with reference to letter no. Nil dated nil received in the Ministry 07.12.2009 along with the application for Terms of Reference (TOR) and this Ministry's letter dated 23.09.2010 granting TOR. Reference is also invited to the letter no. Nil dated 10th May, 2012 and subsequent letters no. nil dated 06.02.2013; 30.05.2013 & 21.10.2013 for environmental clearance on the above-mentioned subject.

2. The Ministry of Environment & Forests has considered the application. The proposal was considered in the 55th Expert Appraisal Committee (EAC) held on 27th -28th August, 2012 and 2nd EAC meeting held on 3-4 October, 2013 which recommended the project for the Environmental Clearance to coal washery. It is noted that the proposal is for grant of Environmental Clearance for **expansion of 2.4 MTPA dry type coal washery to 3.6 MTPA Coal Washery of M/s Hind Energy & Coal Beneficiation (India) Pvt. Ltd. Dist. Bilaspur, Chhattisgarh.** The proponent informed that:

- i. It is an expansion project of coal washery of M/s Hind Energy & Coal Beneficiation (India) Pvt. Ltd to which Ministry accorded TOR vide letter no. J-11015/364/2009-IA.II (M) dated 23.09.2010.
- ii. The proposal is for expansion of washing of ROM coal from 2.4 MTPA to 3.6 MTPA.
- iii. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- iv. **Cost:** Total capital cost of the project is Rs. 15.40 Crore.
- v. **Approvals:** Ground water clearance obtained on 15.02.2011.
- vi. **Wildlife issues:** There are no national parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- vii. **Forestry issues:** No forest issue involved.
- viii. There are no court cases/violation pending with the project proponent.
- ix. **Public hearing** was held on 28.02.2012 at district Bilaspur in Chhattisgarh. The issues raised in the PH were regarding land acquisition, repairing of road, social upliftment, accidents during transportation, health of people, employment to locals, and establishment of pond etc.
- x. EC for 2.4 MTPA capacity coal washery was issued by the MoEF vide letter J-11015/190/20007-IA-II(M) dated 24.06.2008. The compliance report to the EC conditions have been certified by the

by the Regional Office, of the MoEF, Bhopal.

- xi. Greenbelt on 9.17 acres has been developed in the existing plant premises. Proposed expansion will be taken up in the existing plant premises. Avenue plantation has already been done and around 5000 saplings have been planted in and around the existing plant. Plantation has been developed on both sides of village road used for transportation. The proponent has further assured for development of green belt in and around the coal washery.
- xii. Gevra and Kusmunda railway siding are under the jurisdiction of SECL, hence the proponent cannot initiate installation of any private CHP. Information from Railway authorities indicates that loading and unloading is done almost by pay loaders rather than by CHP even by SECL. The proponent has informed that they will use only 1 to 2 rakes daily.
- xiii. Siding where unloading is done is under the jurisdiction of SECR (Railway) Gatora line No-07 and therefore, feasibility of mechanized unloading is not possible.
- xiv. The proponent stated that they were granted permission only for loading of coal from private railway siding. However, they will explore the feasibility of the mechanical system and will check for the viability of the same and will proceed further accordingly. Moreover in processed coal , percentage of moisture is high. Therefore, chances of fugitive odour to avoid spillage and fugitive emission, each and every truck is covered with good tarpaulin sheets and sealed with lead seal. Hence, there will not any significant fugitive dust emission during transportations. emission are very low.
- xv. The proponent is in process to install automatic sprinkler system at the railway siding.
- xvi. Mechanically covered trucks are not available in the market. A fleet of 250 – 300 fleet of vehicles are engaged for transportation of coal which cannot be discarded suddenly due to the fact that the current infrastructure doesn't support it. However, whenever such facilities are available in the market, the proponent will slowly change all vehicles to mechanically covered trucks.
- xvii. The work of railway siding is going on in full swing and very soon it will start, further any extension in this regards will not be sought.
- xviii. In the existing plant, technology used for washing of coal is dry Process, hence there is no usage of water in the process. Water required in the existing plant is only for domestic purpose. Hence only wastewater generated in the existing plant is sanitary wastewater which will be treated in septic tank followed by soak pit. No wastewater is discharged into drains / water resources.
- xix. In the proposed expansion, technology used for the washing of coal is wet process. Closed circuit water system will be adopted in the proposed expansion; hence no wastewater will be discharged from the proposed expansion project. Zero effluent discharge system will be maintained.
- xx. The proponent confirmed to adhere to all the conditions stipulated in letter of Central Ground Water Board letter no.21-4(102)/CGWA/2011/174.
- xxi. The details of ash percentage in raw coal, clean coal and rejects range in the raw coal: 41-42%, Clean Coal: 32 – 37%; rejects: 60-75%.
- xxii. Apart from the Rain Water Harvesting structures in the existing plant, a big reservoir / pond have been developed in vicinity of the coal washery and rain water is harvested / collected in the same and after certain cleaning procedure it is used, as and when required in the coal washery.
- xxiii. Till date Rs. 38 Lakhs have been incurred for various CSR activities done in existing plant. Rs. 22.5 Lakhs is earmarked for CSR activities for the expansion project for the proposed activities such as development of village road provision of drinking water facilities, conducting medical camps etc.
- xxiv. As in coal washery, there is no burning of coal hence there is no concept of fly ash.
- xxv. Small clinics are present within the villages and dispensary is also established by the local government in nearby tehsil and same are working under the guidance of Govt. Doctor, Trained Compounder and Nurses. Hospital is situated at Sipat, about 5 Kms. from plant site, where 24 Hrs. doctor facility is available.
- xxvi. No occupational diseases are found in the local villagers except only common ailments like cold, fever etc. is prevalent in the nearby villages.
- xxvii. A well-established environment lab has been established within the premises of the coal washery.

xxviii. Various issues raised in the Public Hearing were: Existing plant emits lot of dust due to the coal crusher; dust harming agricultural land and crops; eye camp be made in the surrounding villages; the proposed expansion will increase development of infrastructure and upliftment in the social status of the villagers; many accidents happened due to the truck movement; water sprinkling on the road be done to reduce the fugitive emission; a pond be provided as promised; local primary health clinics & hospitals in the area be made; basic amenities viz. drinking water, health education, and sanitation, details of population be strengthened. The Committee deliberated on these issues alongwith the replies of the proponent and the action plan submitted by the proponent. The Committee asked the proponent to implement the assurances given during the Public Hearing and the action plan submitted be implemented.

3. The proponent presented the compliance report from the RO, MoEF vis-a-vis the commitments by the proponent (vide their letter no.03-38/2008 (Env)/591 dated 8th April, 2013. EAC has deliberated the compliance report and found to be complied with EC conditions.

4. The proposal was considered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) in its 55th Expert Appraisal Committee (EAC) held on 27th -28th August, 2012 and 2nd EAC meeting held on 3 - 4 October, 2013 for granting Environmental Clearance. The Ministry of Environment & Forests has examined the application in accordance with the EIA Notification, 2006 and under the provisions thereof, hereby accords environmental clearance for the above-mentioned **Expansion of 2.4 MTPA dry type of coal washery to 3.6 MTPA Coal Washery of M/s Hind Energy & Coal Beneficiation (India) Pvt. Ltd. Dist. Bilaspur, Chhattisgarh** under the provisions of the Environmental Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions:

A. Specific Conditions:

- i. Coal transportation shall be by mechanically covered trucks for loading and unloading.
- ii. Green belt in and around the coal washery should be further intensified.
- iii. Automatic sprinkler system at the railway siding should be installed.
- iv. No extension for the work of railway siding will be sought by the proponent.
- v. No wastewater will be discharged into drains / water resources.
- vi. In the proposed expansion, technology used for the washing of coal is wet process. Closed circuit water system will be adopted in the proposed expansion. project. Zero effluent discharge system will be maintained.
- vii. The proponent should adhere to all the conditions stipulated in letter of Central Ground Water Board letter no.21-4(102)/CGWA/2011/174.
- viii. The assurances given during the Public Hearing and as per the action plan developed by the proponent should be implemented
- ix. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- x. Three-tier green belt should be developed along the washery boundary and along transfer and loading points and in the proposed railway siding to mitigate/check dust pollution and the entire coal dispatch from the group of mines should be dove-tailed with the Coal evacuation system prepared for the Angul-Talcher. A 3-tier avenue plantation should also be developed along vacant areas, near washery, storage yards, loading points and transfer points and along internal roads and main approach roads and on the 2-km road upto the railway siding and at the siding.
- xi. The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site(s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.

- xii. Hoppers of the coal crushing unit and washery unit shall be fitted with high efficiency bag filters and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
- xiii. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned with 8 mechanical sweepers.
- xiv. Trucks engaged for mineral transportation outside the washery upto the railway siding covering a distance of 2km shall be optimally loaded and covered with tarpaulin with no spillage en route. The trucks shall be properly maintained and emissions shall be below notified limits. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- xv. Records of quantum and ash content of raw coal being washed, and clean coal and coal rejects produced from every batch of washing shall be maintained and details thereof uploaded on the company website.
- xvi. The transportation of coal should be by mechanically covered trucks in order to reduce coal spillage and dust pollution
- xvii. The waste water should be discharged after proper treatment;
- xviii. All the conditions stipulated in the letter of Central Ground Water Board letter no. 21-4(102)/CGWA/NCCR/2011/174 dated Nil should be adhered to
- xix. The time limit should be provided to the Contractual vendors /contractors for providing mechanically covered trucks for coal transportation.
- xx. The washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. Recycled water shall be used for development and maintenance of green belt and in the Plant Operations.
- xxi. Industrial wastewater (workshop) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before use within the washery premises. Oil and grease trap shall be installed for treatment of workshop effluents. No wastewater shall be discharged from the washery into the drains/natural watercourses.
- xxii. No additional groundwater shall be used for the Plant Operations. Any additional water requirement envisaged shall be obtained by recycle/reuse to the maximum extent and from rainwater harvesting measures.
- xxiii. Socio-economic and welfare measures for the local communities for the adjoining villages shall be implemented under CSR. Activities under CSR activities to be undertaken for the adjoining villages shall be identified in consultation with the local authorities, the details of status of implementation of CSR and expenditure thereon which should be annually updated on the company website.
- xxiv. Heavy metal content in raw coal, and washed coal shall be analysed once in a year and records maintained thereof.
- xxv. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- xxvi. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.
- xxvii. Corporate Environment Responsibility:
 - a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.

- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions:

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- v. Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- vi. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

- xiii. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.
- xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
- xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xix. The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by e-mail.

5. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.

6. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent

7. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

8. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

9. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.

10. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

11. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. This EC supersedes the earlier EC, vide letter no. J-11015/190/2007-IA.II (M) dated 24.06.2008.

(Dr. Manoranjan Hota)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Chhattisgarh, Secretariat, Raipur.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal 462016.
4. Member Secretary, Chhattisgarh State Environment Conservation Board, 1-Tilak Nagar, Shiv Mandir Chowk, Main Road, Avanti Vihar, RAIPUR-Chhattisgarh- 492001.
5. Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, Bilaspur, Government of Chhattisgarh
8. Monitoring File 9. Guard File 10. Record File. 11. Notice Board

(Dr. Manoranjan Hota)
Director